IN THE CLAIMS:

Claim 1 (Amended): A system for monitoring wear of one or more aircraft parts, comprising:

at least one sensor for sensing at least one parameter of usage of an aircraft part and for generating a signal indicating a sensed value of said parameter of usage of said aircraft part;

means for monitoring the usage and wear of said aircraft part on the basis of said sensed value of said parameter, said means for monitoring the usage and wear of said aircraft part being operatively connected to said at least one sensor;

means for monitoring the usage and wear of an aircraft system incorporating said aircraft part as a function of the usage and wear of said aircraft part, said means for monitoring the usage and wear of an aircraft system being operatively connected to said at least one sensor; and

means for determining the remaining life of said aircraft system on the basis of said monitoring, said means for determining the remaining life of said aircraft system being operatively connected to said at least one sensor.

Claim 2 (Amended): The system for monitoring wear of an aircraft part of claim 1, further comprising means for monitoring the usage and wear of an aircraft tire, said means for monitoring the usage and wear of an aircraft tire being operatively connected to said means for monitoring the usage and wear of an aircraft system.

Claim 3 (Amended): [[The]] A system for monitoring wear of an aircraft tire ~~of claim 2, wherein the means for monitoring usage and wear of said aircraft tire comprises~~ comprising:

a wheel speed monitor generating a wheel speed signal indicating wheel speed of the aircraft,

means for sensing aircraft yaw generating a yaw signal indicating aircraft yaw, and

means for determining an estimate of usage of said tire based upon said wheel speed signal and said yaw signal, and distinguishing between static brake applications and moving brake applications based upon said wheel speed signal.

Claim 4 (Previously presented): The system for monitoring wear of an aircraft tire of claim 3, wherein said wheel speed monitor comprises a wheel speed sensor.

Claim 5 (Previously presented): The system for monitoring wear of an aircraft tire of claim 3, wherein said wheel speed monitor comprises an aircraft speed sensor.

Claim 6 (Amended): The system of monitoring wear of an aircraft part of claim 1, further comprising means for monitoring the usage and wear of an aircraft standby system, said means for monitoring the usage and wear of an aircraft standby system being operatively connected to said aircraft standby system.

Claim 7 (Amended): The system for monitoring wear of an aircraft ~~standby system~~ part of claim 6, wherein the means for monitoring the usage and wear of an aircraft standby system comprises means for sensing input power to said standby system and generating an input power signal, means for measuring the period of time elapsed

during each usage of said standby system and generating an elapsed time signal, and means for determining an estimate of usage of said aircraft standby system based upon said input power signal and said elapsed time signal.

Claim 8 (Amended): The system for monitoring wear of an aircraft part of claim 1, further comprising means for determining the remaining life of an aircraft landing gear, said means for determining the remaining life of an aircraft landing gear being operatively connected to the aircraft landing gear.

Claim 9 (Amended): The system for ~~determining the remaining life of the aircraft landing gear~~ monitoring wear of an aircraft part of claim 8, wherein the means for determining the remaining life of an aircraft landing gear comprises means for sensing load on said landing gear and generating a load signal, means of measuring the period of time elapsed during each usage of said landing gear generating an elapsed time signal, and means for determining an estimate of usage of said aircraft landing gear based upon said load signal and said elapsed time signal.